

ABSTRACT

A digital camera (10) includes an image sensor module (20), a Digital Signal Processor (DSP) (30), an Microprogrammed Control Unit (MCU) (40), a Dynamic Random Access Memory (DRAM) (50), an output apparatus (60), and a printed circuit board (PCB) for connecting all of the above components together. The image sensor module comprises a camera lens (21) seated on an image sensor (23). The camera lens has a non-spherical surface. Optical signals are transformed to analog signals in an image sensor, the analog signals are transformed into digital signals by the DSP, and the digital signals are processed by the MCU. The DRAM (50) is used for storing data for the MCU.